

## RAJAN JHA

## Achievements

- Rank 289 in Google Kick Start Round F 2020
- Rank 473 in TCS Code Vita 2019
- Infosys Certified Software Programmer

## Educational Background

- BACHELOR OF ENGINEERING**  
*COMPUTER* | 2016 – 2020
  - Thakur College of Engineering & Technology, Mumbai
  - CGPA: 8.54/10
- H.S.C** | 2014 - 2016
  - Mithibai College, Mumbai
  - Percentage: 80.77%
- S.S.C** | 2014
  - St. Lawrence High School, Mumbai
  - Percentage: 86.00%

## Skills

## Programming Languages

C++, Java, JavaScript, TypeScript

## Tools and Technologies

HTML, CSS, MySQL, Appium, TestNG, Kubernetes, Git, Postman, Burp Suite, Jenkins, Maven, Cucumber, GraphQL, AWS, React, Express.js

## Courses

- Java Programming**  
*Duke University - Coursera*
- Html, CSS and JavaScript**  
*Johns Hopkins University - Coursera*
- Learn SQL**  
*One Month*

## Hobbies

Playing  
CricketLearning  
magic tricks

## Experience

**Software Development Engineer in Test** Aug'20 – Present  
*Dream11 – Mumbai***Frontend Automation:**

- Worked on development of TestNG multi-threaded parallel execution framework for Android and IOS App automation in Java using Maven
- Implemented Page Object Model for mobile interaction by creating element for each page object and reused all objects in various scripts
- Automated various test cases in Android and IOS using Appium Driver to reduce efforts in regression by 33% on each platform

**Backend Automation:**

- Worked on development of BDD Cucumber framework for GraphQL and backend microservices automation in Java using Maven
- Automated various CRUD operations on MySQL Database using JDBC
- Automated various REST API calls and GraphQL query/mutation calls using RestAssured to reduce the feature testing effort by 40%

**CI/CD:**

- Worked on automating multiple services deployments through Jenkins jobs on Docker/Integration environment at once using Jenkins API
- The automation could trigger up to 10 deployments in parallel with the help of TestNG Data Provider and Threads
- Proficient in testing and debugging GraphQL and REST API's JSON schema and response using Postman and Burp Suite
- Involved in deployment of backend services to production EC2 instances of Amazon Web Services (AWS)
- Gained experience of version control using Git and GitHub

**Software Engineer Intern** Aug'18 – Jan'19  
*Citizens Association for Child Rights - Mumbai*

- Worked on refinement of application EduRP and successfully integrated libraries and bug fixes in the application.
- Gained experience of development in all the phases of Software Development Life Cycle (SDLC) of the application.

## Projects

**Fire Detection using Color Recognition** Aug'19 – April'20  
*Python, OpenCV*

Developed a Machine Learning System that learns from training dataset and alerts on dominant color variations to detect fire in real time.

The system is capable of taking multiple snapshots of an area using dedicated camera and process them using KNN to define the color having maximum distribution and match it with shades of red color in fire.

IEEE research paper published at the International Conference on Intelligent Computing and Networking 2020 (ICICN - 2020).

**College Management System** Jan'19 – April'19  
*HTML, CSS, Php and MySQL*

Developed a webapp which is capable of performing CRUD operations on a MySQL database and assisting in basic college activities.

**Image Filters Website** July'18 – Dec'18  
*HTML, CSS and JavaScript*

Developed a website which is capable of applying filters, perform steganography and apply green screen algorithm on an image.